INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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COUNTRY	Czechoslovakia	REPORT NO.	
SUBJECT	Atomic Warfare Training	DATE DISTR.	26 August 1955
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air force uniform but kept the rank of lieutenant.

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Thereafter

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25X1X_{Training Aids}

the instructor had a series of about ten 1.5 x 1 m. pictures showing in sequence the manner in which the cloud of an atomic blast took shape. They were hand-drawn, probably by a commercial artist, in black and red inks. Red ink was used to illustrate the explosion and heat radiation. One of the pictures depicted the final aspect of an explosion; the other pictures 25×1×depicted the foregoing progressive stages of an explosion. These pictures were classified "Secret" ("Tajne").

gave the lecture on atomic warfare utilizing an unidentified manual. The manual had gray soft covers, contained an estimated 100 pages, and was about 20 x 15 cm. in size. This manual was not registered in Secret Control and did not have an opportunity to see its classification. Troops did not receive any training manuals on atomic warfare, nor were they required to take notes during classes. No examinations were held upon completion of the course.

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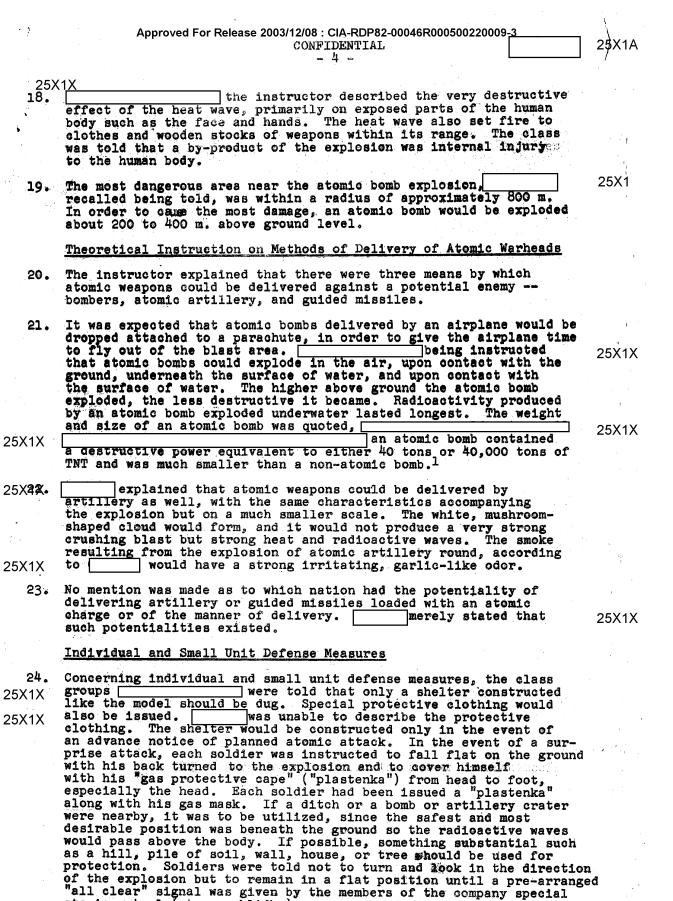
5. The class was shown a small clay or plastic model of an individual "fox hole", which, it was told, would offer protection to anyone within the area of an atomic blast. This small model of a one man shelter measured approximately 25 x 13 x 15 cm. It was supposed to take six hours to dig this shelter in normal soil and longer if the soil were harder. Such an emplacement, according to would afford protection as close as 50 m. from ground zero.

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Description of U-Shaped One-Man Anti-Atomic Shelter (See memory sketches, pages 7 and 8.)

- 6. The bottom of the U-shaped one-man anti-atomic shelter was to slope gradually from a depth of about one meter at the gas cape partition to about 1.5 m. at the end of the shelter where the soldier would assume a crouched position. The shelter was to be about 0.6 m. wide throughout, except that at the far end of the shelter, where a soldier was to assume a crouched position, it was to be about 0.8 m. wide.
- 7. The wall of the shelter facing the direction of explosion was 1.5 m. wide, with the opposite end of the shelter having the same width. The length of the shelter was to be approximately two meters.
- 8. A soil parapet of well-packed soil was to encircle the entire shelter with an extension between the arms of the U (see page 7). The section of the parapet which was to face the expected direction of the explosion was to be 1.8 m. long, 1.2 m. wide, approximately 0.8 m. high at the edge of the shelter, and gradually sloping out from the shelter toward the ground level.
- 9. The parapet surrounding the side and rear of the shelter was to be approximately 0.5 m. wide and 0.5 m. high, also gradually sloping out from the shelter toward ground level.
- 10. This shelter was divided into two compartments at the gas cape partition by a gas protective cape (plastenka), which was issued to every soldier together with a regular chemical warfare gas mask. The entire shelter from the gas cape partition to the location where the soldier was to assume a crouched position was to be covered by available logs, branches, and twigs, and topped by soil. A thickness of 0.5 to 0.8 m. was recommended for this covering.

25X1X	Practical Exercises	
11.	never participated in or heard of practical exercises to construct an "atomic fox hole" or any other form of sactical atomic warfare drills.	7
12. 25X1X 25X1X	Instruction on atomic warfare first aid or decontamination was not given However, the instructor mentioned that a first aid point would be located somewhere behind the company lines. The approximate distance behind the lines for the location of the first aid point was mentioned, At this location first aid would	
25X1	be administered to those in need and individuals would be checked for radiation contamination.	
13.	Reports on Training	1
		Summer,
. L	Content of Instruction in General	J
14.	Instruction consisted mainly of a description of the characteristics of an atomic explosion, how an atomic warhead could be theoretically delivered, and what precautions must be taken to protect the individual soldier.	
15. 25X1X	The purpose of the atomic warfare training, according to the instructor's introductory statement, was to acquaint the soldier with a new weapon which could be used against him, to teach the soldier how to recognize this new weapon, and to train the soldier in methods of self-protection against it.	
25X1X	mentioned that the United States had atomic bombs, and reference was made to those dropped on Hiroshima and Nagasaki during World War II. No mention was made as to whether or not the USSR or Czechoslovakia had such bombs or atomic weapons or whether or not either of these countries carried on experiments	
	with atomic weapons.	25X1)
25X1X	Basic Theoretical Instruction on Atomic Explosions	
25X1 17.	had explained in some detail the difference between an atomic bomb and an ordinary bomb explosion. pointed out that with an ordinary bomb the resulting irregularly-shaped smoke vanished quickly, while an atomic explosion was accompanied by an unusually brilliant light flash, then a very strong crushing blast and an intense heat wave of very short duration, and a slowly rising mushroom-shaped white cloud over the spot of the explosion which lingered for a considerable time in the air did not mention the duration of any of these stages of the explosion.	



.atomic patrol (atomova hlidka).

CONFIDENTIAL - 5 -

Special protective clothing was to be issued for covering the face and hands of each individual soldier, and special protective clothing would also be issued to the members of the company atomic detection 25. patrol. Samples of such clothing were not shown since they were not as yet available. For the time being, according to the instructor, a handkerchief over the face would give some protection to a soldier against the heat wave from the explosion. 25X1X

it was planned that each commanding officer would have a special atomic patrol organized in addition to the chemical warfare squad. Members of this atomic patrol were to be selected from members of each unit and were to receive special protective clothing and radiation detection instruments. The number of patrol members or material used for their protective clothing were not mentioned. Atomic patrol duties were to be performed in addition to their regular duties. No mention was made as to the strength or organization of these patrols, nor was the special equipment described. \square did appoint one man out of each group of 20 attending the lectures to be a member of the patrol which was to be formed.

a practicel atomic defense demonstration would be held outdoors at some future date, upon the arrival of expected protective clothing and detectors. No such class was 25X1X

Instruction at Pilot Officers' Training Center

26.

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25X1X -25X1X It was given by a lieutenant colonel or the Czechoslovak Army, branch unknown who had the title of doctor of technical science from the Military Experimental Institute (Vyzkumny vojensky ustav) in Prague. This lecture was theoretical in nature and the lecturer went into minute details on the current construction of atomic bombs, the nature of a chain reaction, and causes of an atomic explosion. The only detail 25X1X 25X1X could recall from this lecture was that an atomic bomb contained some heavy water, plutonium, and uranium. The clash of these substances caused the explosion, according to the lecturer. Figures and progressive steps causing such an explosion were given and shown through about 20 sketches called "diapositives" 25X,1 They were shown through a lantern slide type projector. The classification of these sketches was not indicated. 25X1 recall any additional information. 25X1<u>X</u>

 $oldsymbol{ol}}}}}}}}}}$ devices were shown. Each device could detect radioactivity under one specific set of conditions or circumstances. He could remember only vague information about three of the devices. One of these could detect radioactivity only in the water, one only in the air, and one only in "solid ground" (sic). Some of these devices, he remembered, had graph faces on which the intensity of radiation would be indicated by a needle. Other devices produced sounds. With respect to sizes, source stated that some were approximately 30 cm. long and 30 cm. high. only the front of only the front of these devices from where he sat, he could not estimate their width.
These devices could each be carried in a strap-type carrier. These devices could each be carried in a strap-type carrier. had no opportunity to examine them closely since they were displayed on the podium from which the instructor delivered his lecture and source was seated some distance away. ______ other t of radiation detectors, such as film badges or dosimeters, were not

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Jother types 25X1X

mentioned in any lecture he attended.

25X1X	Special Courses on Atomic Warfare	
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25X1X	Other Atomic Warfare Manuals	
31.		25X1X
 	manuals. These two manuals were of the same general size, type,	*** ***
*	and color as those during classroom instruction. These two manuals had the following titles: Atomic Warfare (Atomova valka) and Protection Against Atomic Warfare (Ochrana proti atomove valce). They were classified "Top Secret" (Prisne tajne).	25X1X
32.	the upper right-hand corner of their covers, the title of the original Soviet manual was printed in Cyrillic type. The name of the translator was indicated under the title.	25X1X
25X1X	unable to remember the original titles in Russian or the names of the translators. Dates of publication of the Czech translations were also indicated, but was unable to remember them. He assumed, however, that they were probably published sometime in	20/(1/
25X1X		25X1X
25X1X	nad leafed casually through these manuals, but he remembered only that drawings, not photographs, of atomic explosions were included. He did not notice any of his unit officers borrowing these	
• • • •	manuals for study.	
25X1A	1. Comment: This probably was 40,000 or 40 KT as it is commonly referred to in the "trade". Atomic explosives of as low a quantity as 40 tons are not believed possible.	, <u>v</u>
25X1A	military service who had graduated from an NCO school which	
	he was selected to attend upon completion of his basic training. Such aspirants were usually commissioned after a certain	
	period of time, depending upon their efficiency and political activity and reliability, without attending a Military Academy. Men of political reliability were selected as aspirants and	
	were urged to remain in the service at the completion of their compulsory service term, if by this time they were not com-	
	missioned. Those aspirants who were commissioned prior to the completion of their compulsory service had to remain auto-	
	matically in the service for five years. After these five years they were either released from active duty or kept on active duty indefinitely.	

Plan View of U-Shaped One-Man Anti-Atomic Shelter Top of Completed Shelter 25X1 - Not to Scale) Direction of expected explosion 1.8 m. 1.2 m. Earthen Parapet Open Trench Partition formed by gas procape 0.5 m 2 m. Branch and soil 0.5 m. covering of closed Éarthen portion of trench Parapet

25X1A

Plan View of U-Shaped One-Man Anti-Atomic Shelter

Bottom of Shelter
Not to Scale)

25X1

